

-- 36. A nucleic acid which encodes a human eosinophil eotaxin receptor receptor, said nucleic acid having the nucleotide sequence as set forth in SEQ ID NO:2.

37. The nucleic acid of Claim 36 which further comprises the nucleotide sequence as set forth in SEQ ID NO:3.

38. The nucleic acid of Claim 36 which further comprises the nucleotide sequence as set forth in SEQ ID NO:4.

39. A vector comprising a nucleic acid which encodes a human eosinophil eotaxin receptor receptor, said nucleic acid having the nucleotide sequence as set forth in SEQ ID NO:2.

40. The vector according to Claim 39 which is selected from the group consisting of: plasmids, modified viruses, yeast artificial chromosomes, bacteriophages, cosmids and transposable elements.

41. A host cell comprising the vector according to Claim 39.

42. The host cell of Claim 41 which is from the AML14.3D10 cell line.

43. A method to determine the presence of a compound which binds to a human eosinophil eotaxin receptor comprising:

(a) introducing a nucleic acid which encodes the human eosinophil eotaxin receptor which comprises the nucleotide sequence (SEQ ID NO:2) into a cell under conditions so that eosinophil eotaxin receptor is expressed;

(b) introducing a detector molecule or a nucleic acid encoding a detector molecule into the cell, wherein the detector molecule is directly or indirectly responsive to a eosinophil eotaxin-ligand binding event;

(c) contacting the cell with a compound suspected of binding to the eosinophil eotaxin receptor; and

(d) determining whether the compound binds to the eosinophil eotaxin receptor by monitoring the detector molecule.

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44. The method of Claim 43 wherein the result of step (d) is compared to that obtained using a known ligand of the eosinophil eotaxin receptor.

45. The method of Claim 44 wherein the known ligand of the eosinophil eotaxin receptor is eotaxin.

46. The method of Claim 44 wherein the known ligand of the eosinophil eotaxin receptor is RANTES.

47. The method of Claim 44 wherein the known ligand of the eosinophil eotaxin receptor is MCP-3.

48. The method of Claim 43 wherein the eosinophil eotaxin receptor is expressed in a host cell which does not naturally express the human eosinophil eotaxin receptor

49. The method of Claim 48 wherein the host cell is from the AML14.3D10 cell line.

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